

106

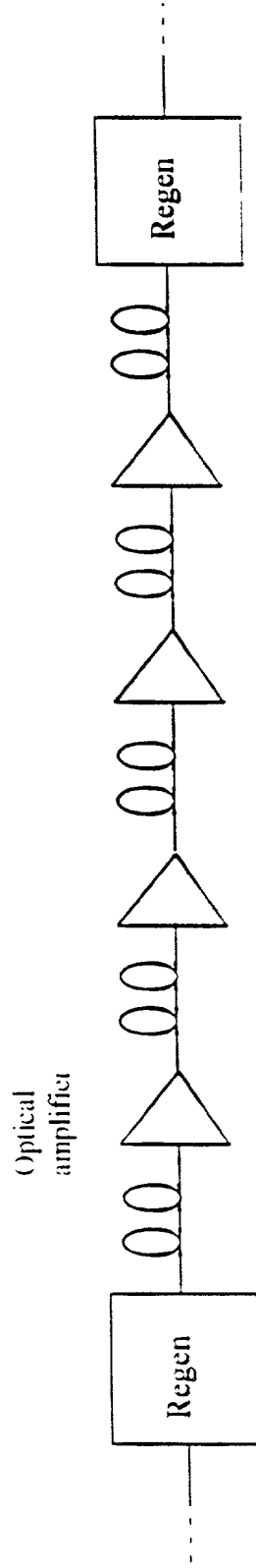


Fig. 1.

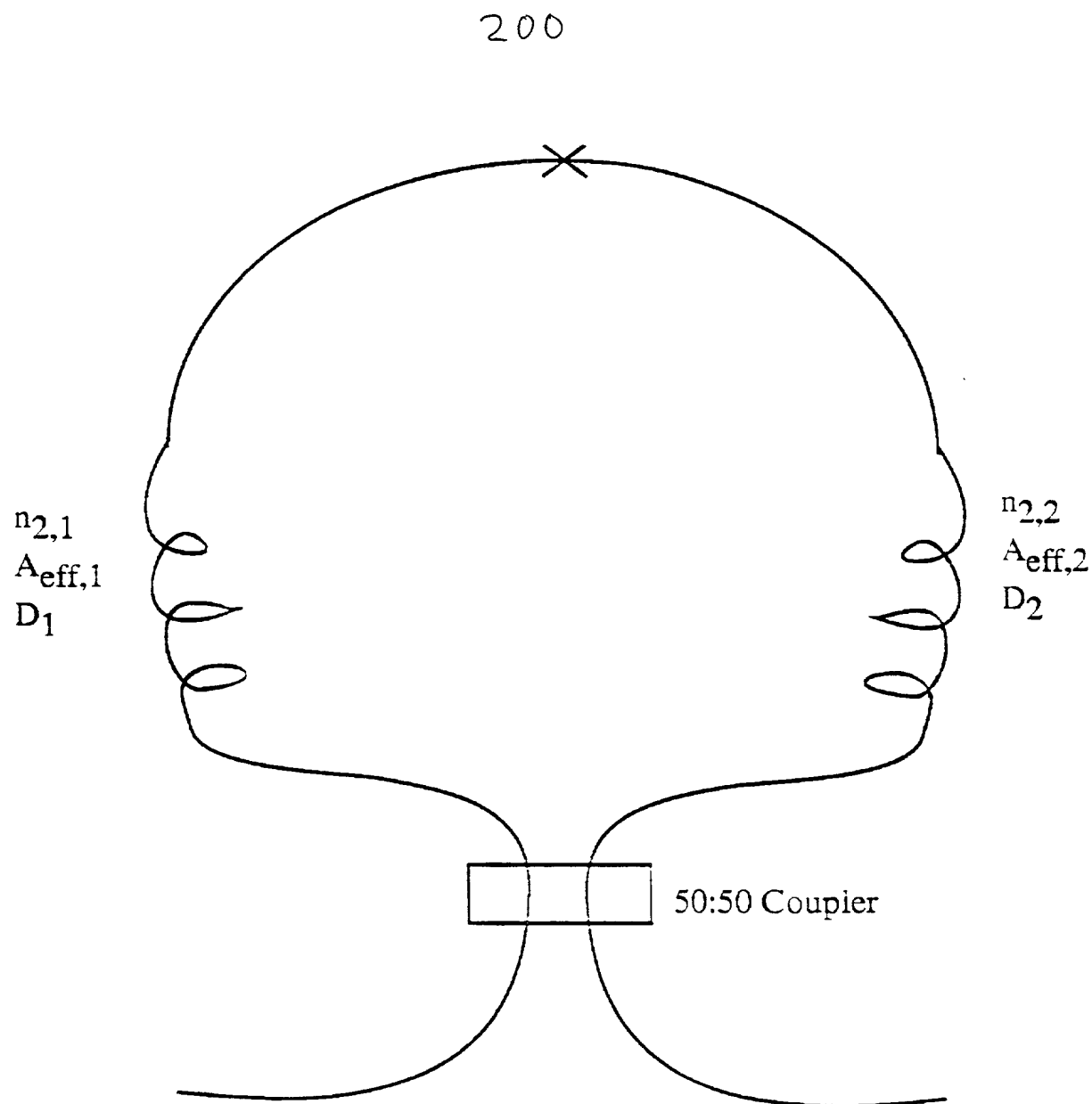


Fig. 2.

09784649.024104

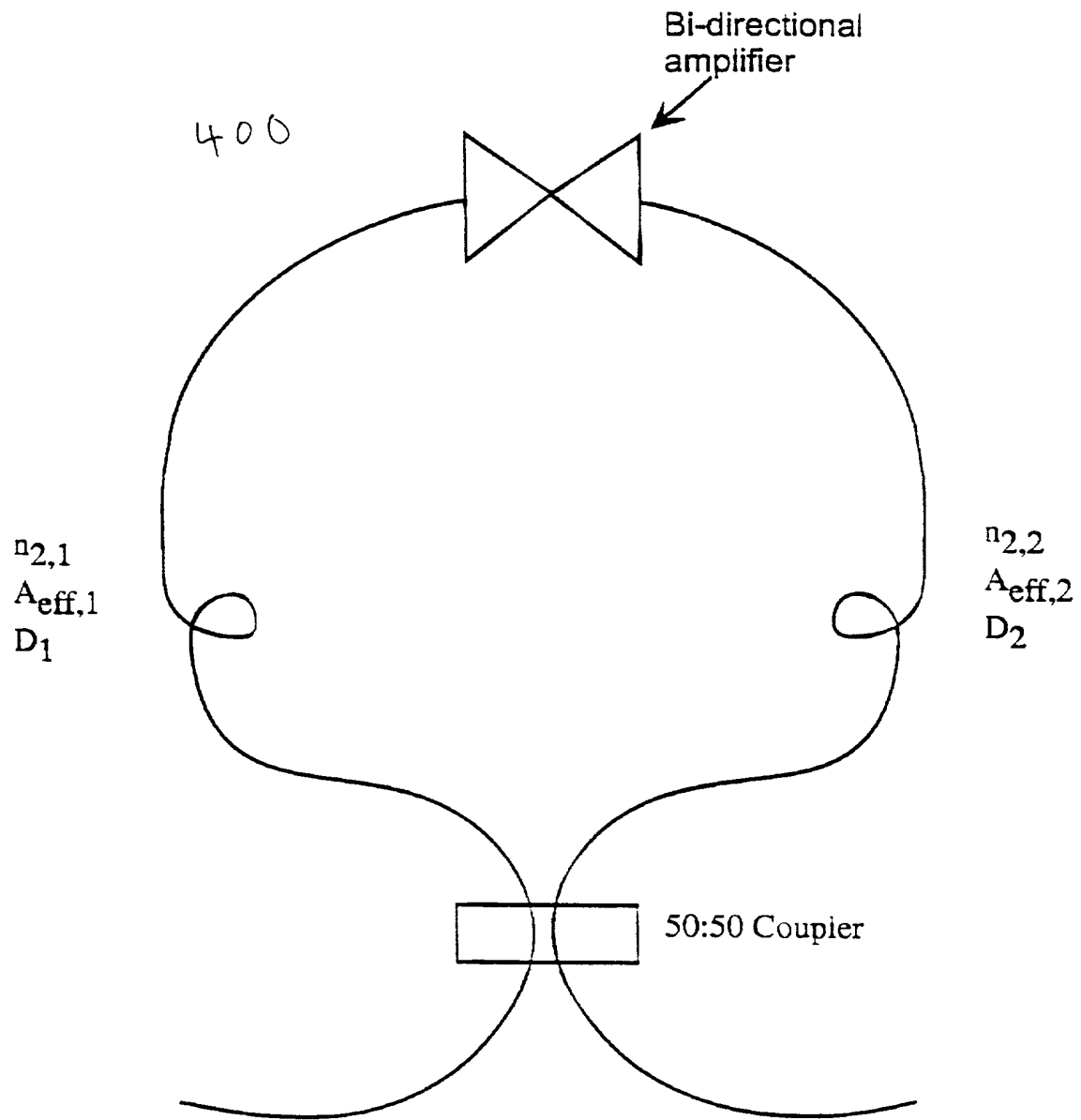


Fig. 4.

09784649-034404

500

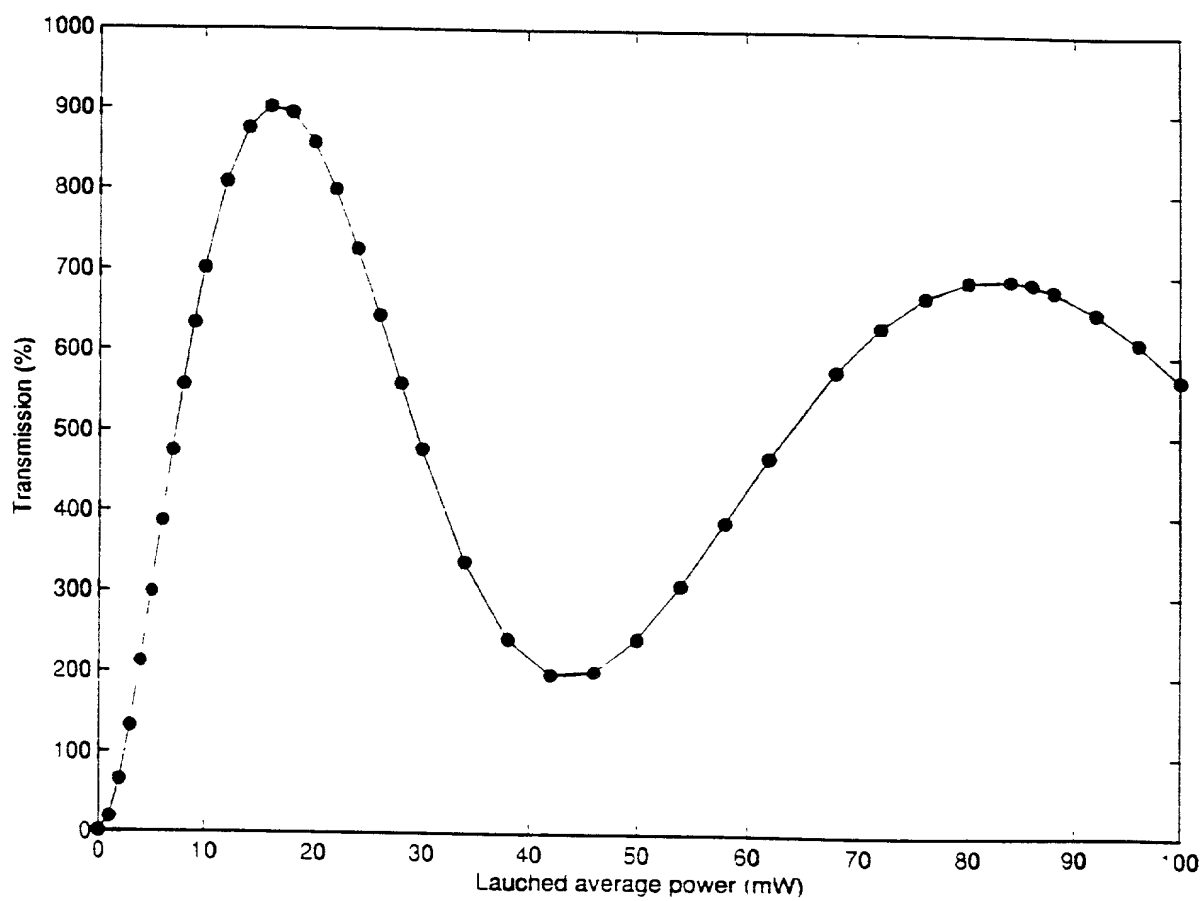


Fig. 5.

0954649 024404

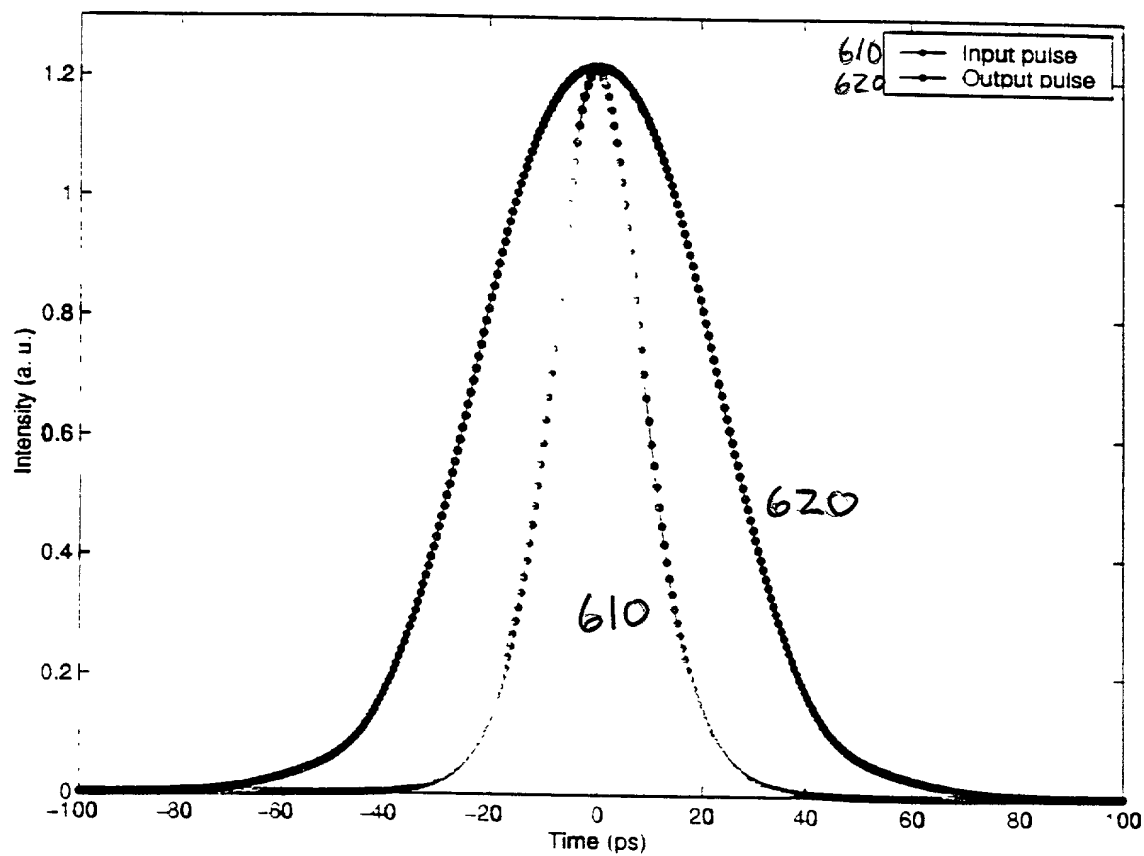


Fig. 6 (a)

0934649-03404

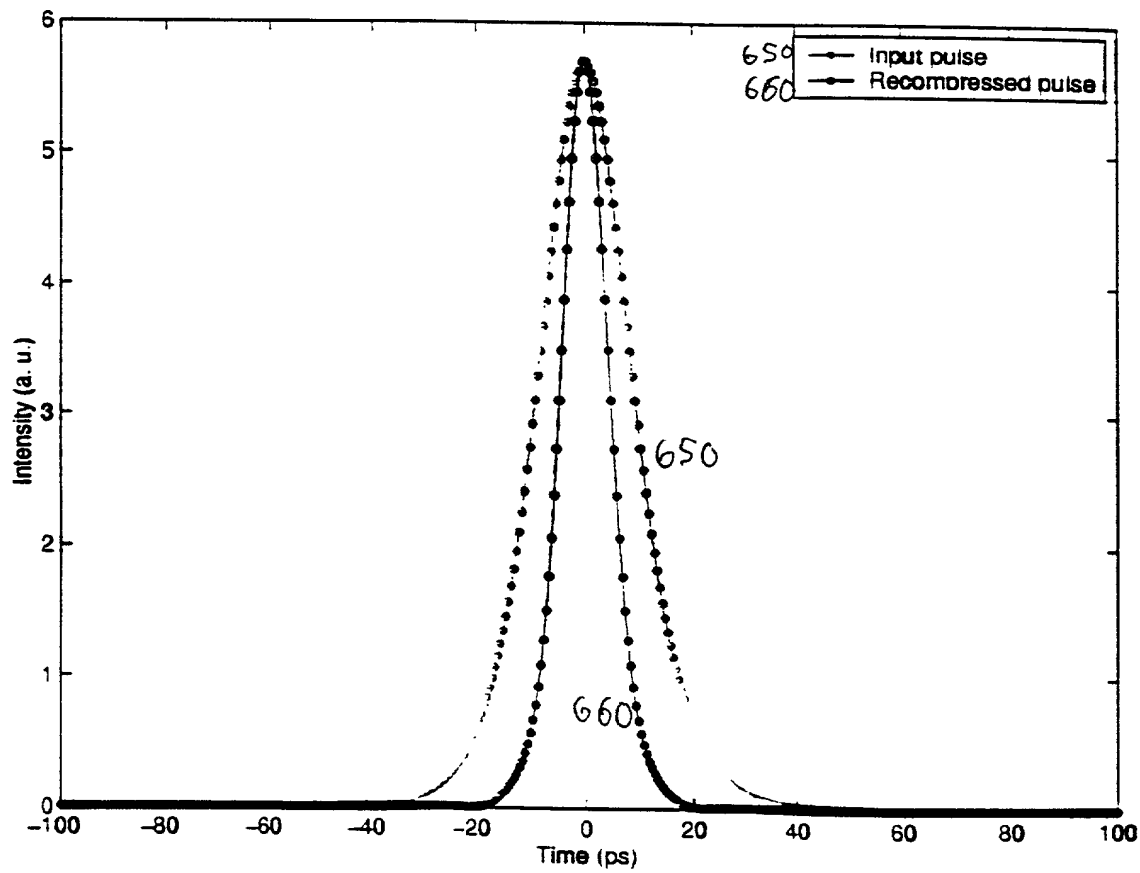


Fig. 6(b)

700

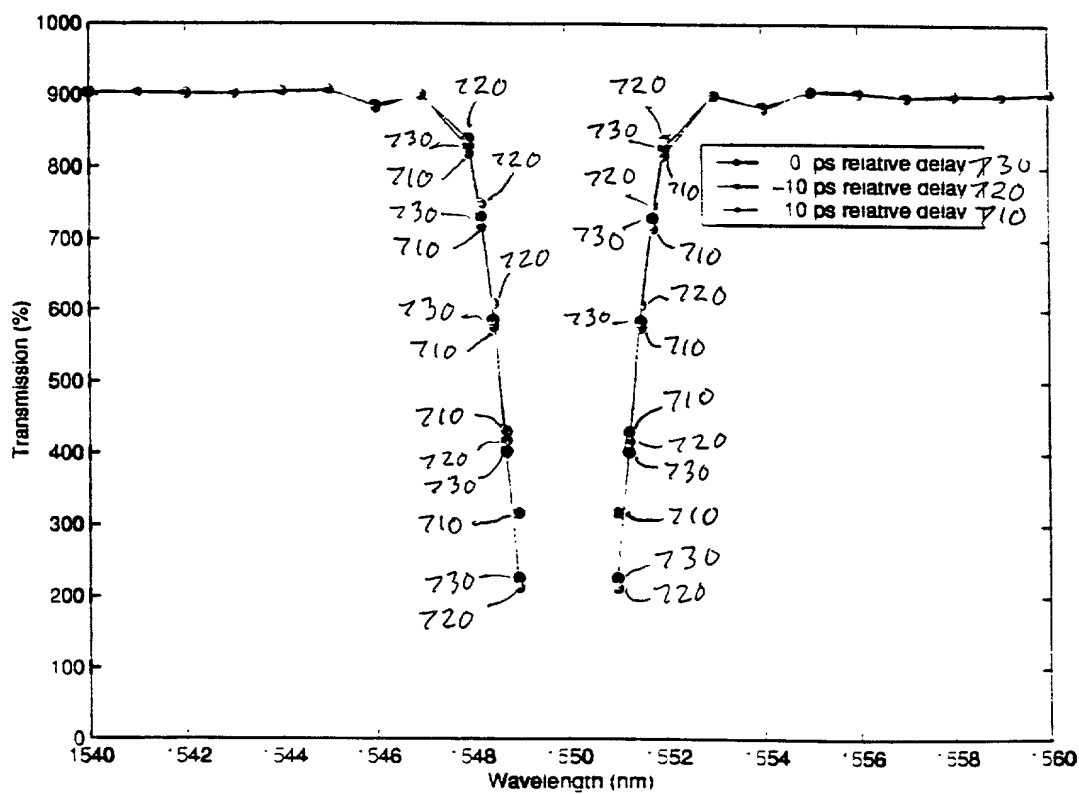


Fig. 7

800

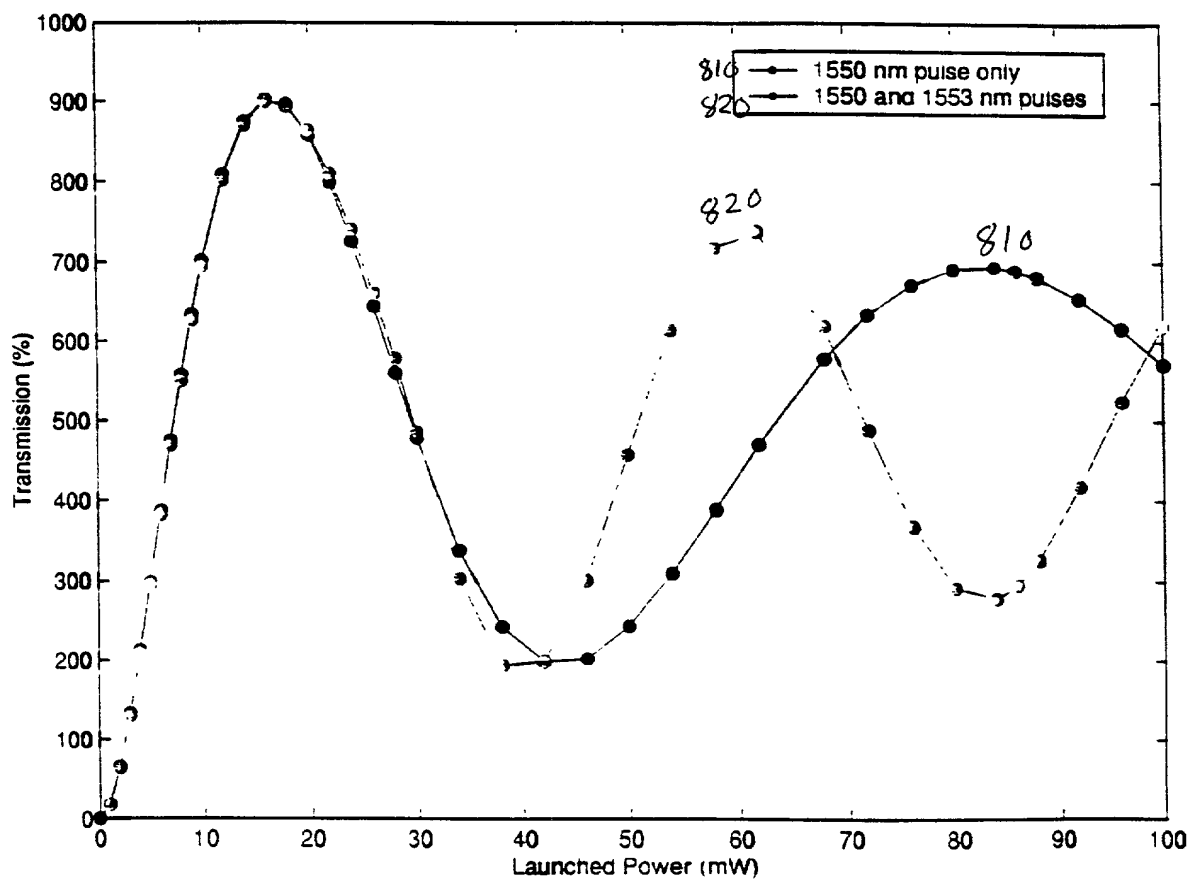


Fig. 8

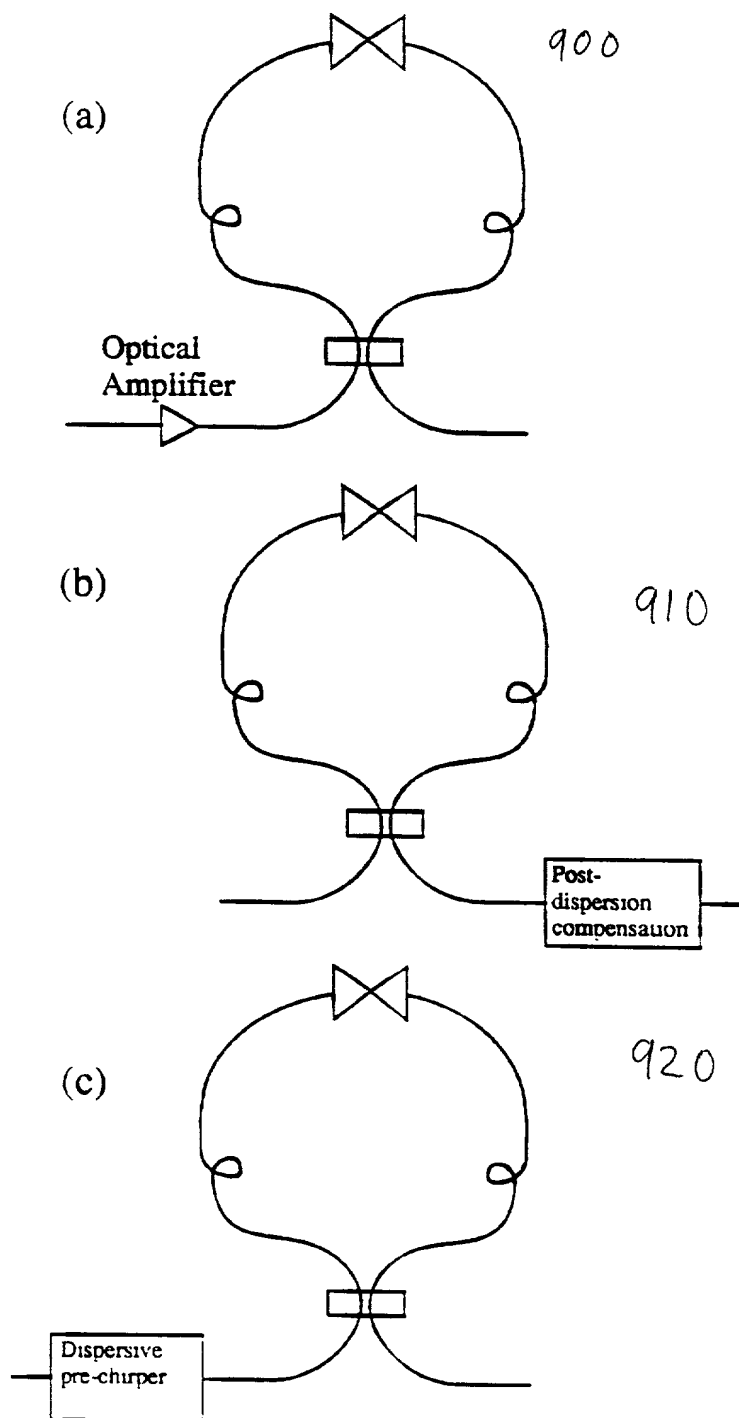


Fig. 9

1000

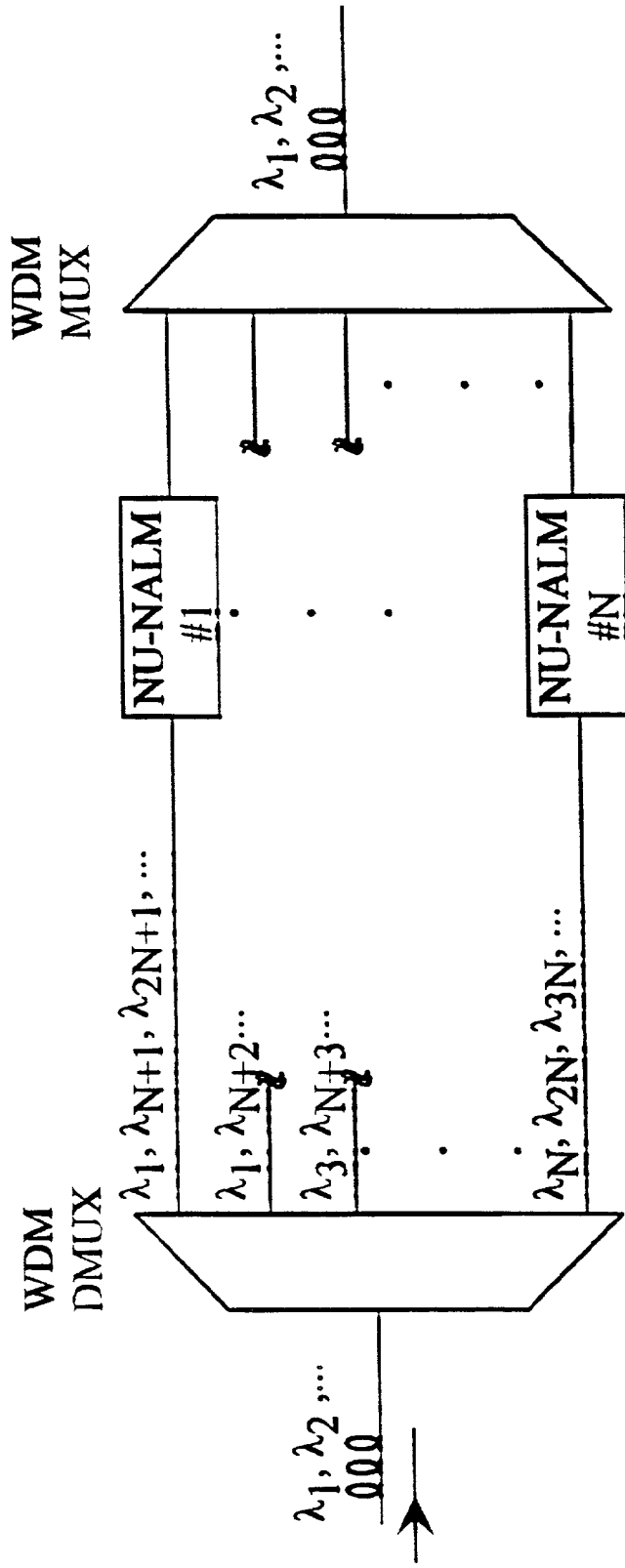


Fig 10.

1100

DCF

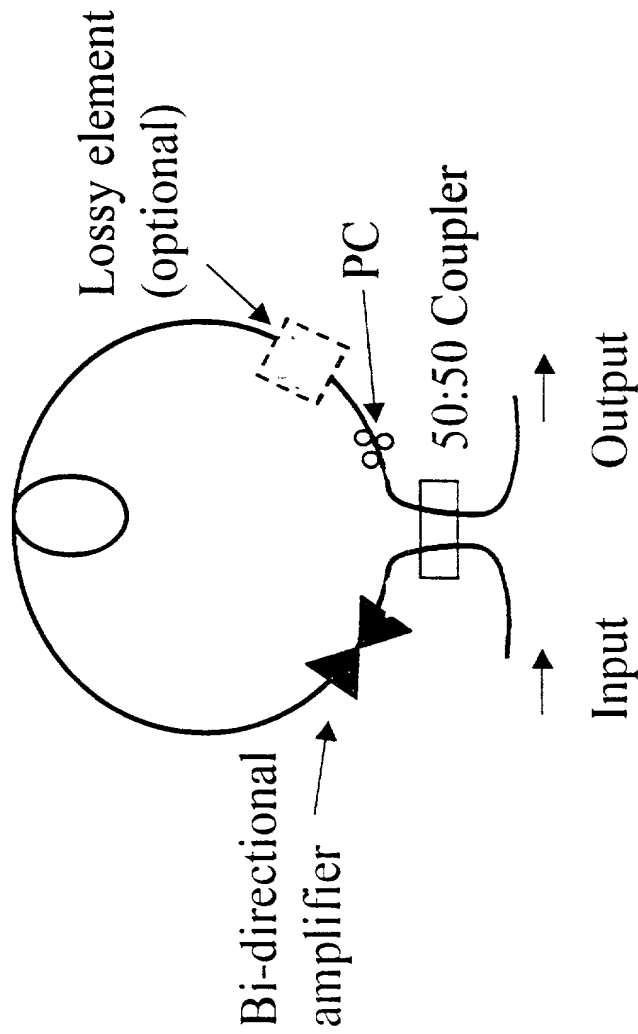


Fig. 11

1200

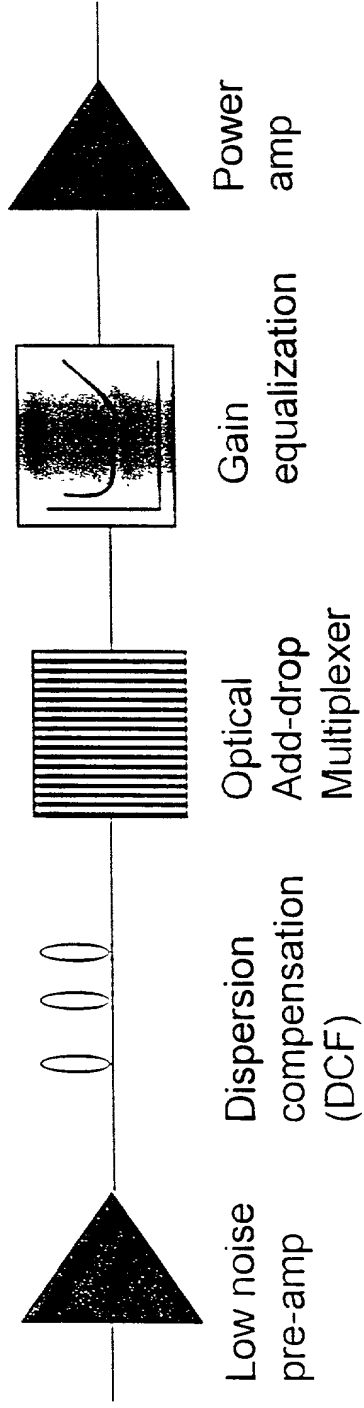


Fig. 12

1300

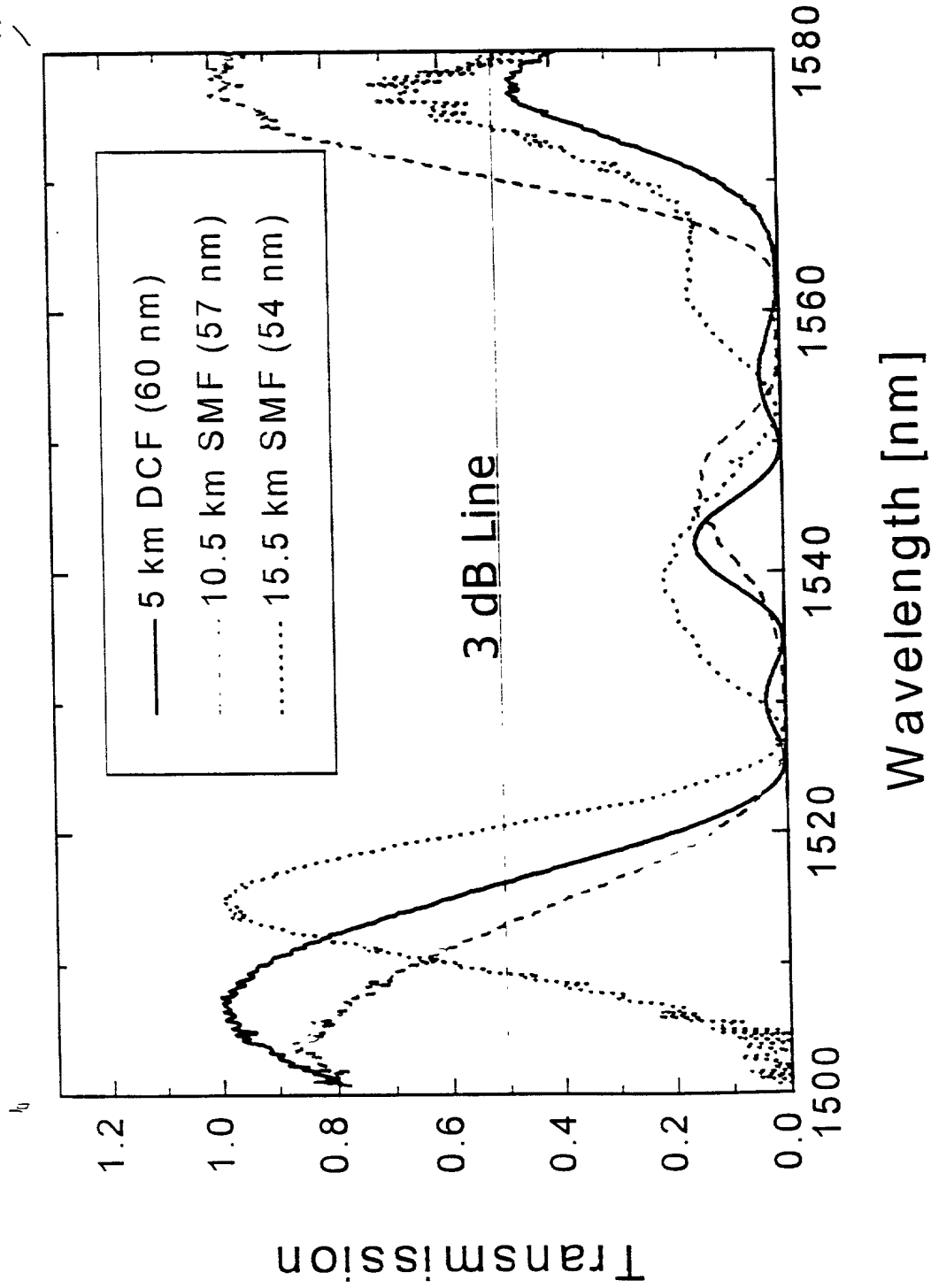
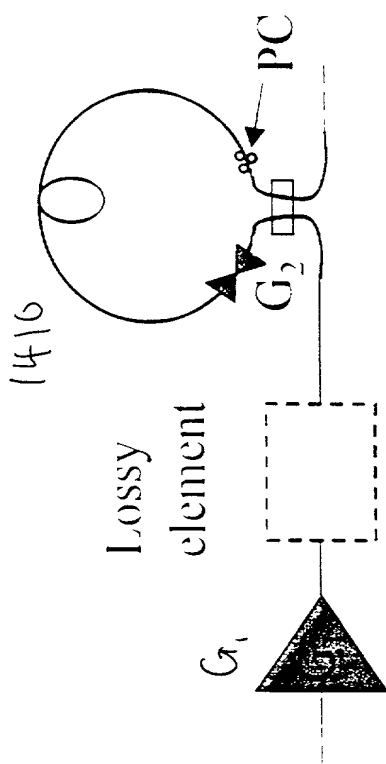


Fig. 13

Fig. 14-(a)



1406

1430

P_{in} (dBm)	G_1 (dB)	G_2 (dB)	P_{out} (dBm)
-11	0	30	9.18
-11	5	25	9.17
-11	10	20	9.16
-11	15	15	9.10

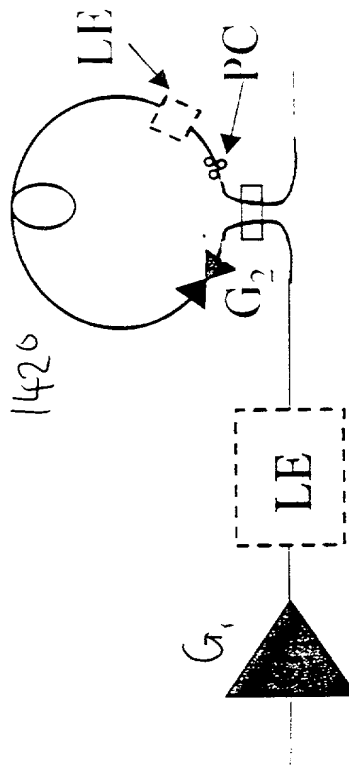


Fig. 14-(b)

Fig. 14-(c)

1560

Circulator Optical amplifier Circulator

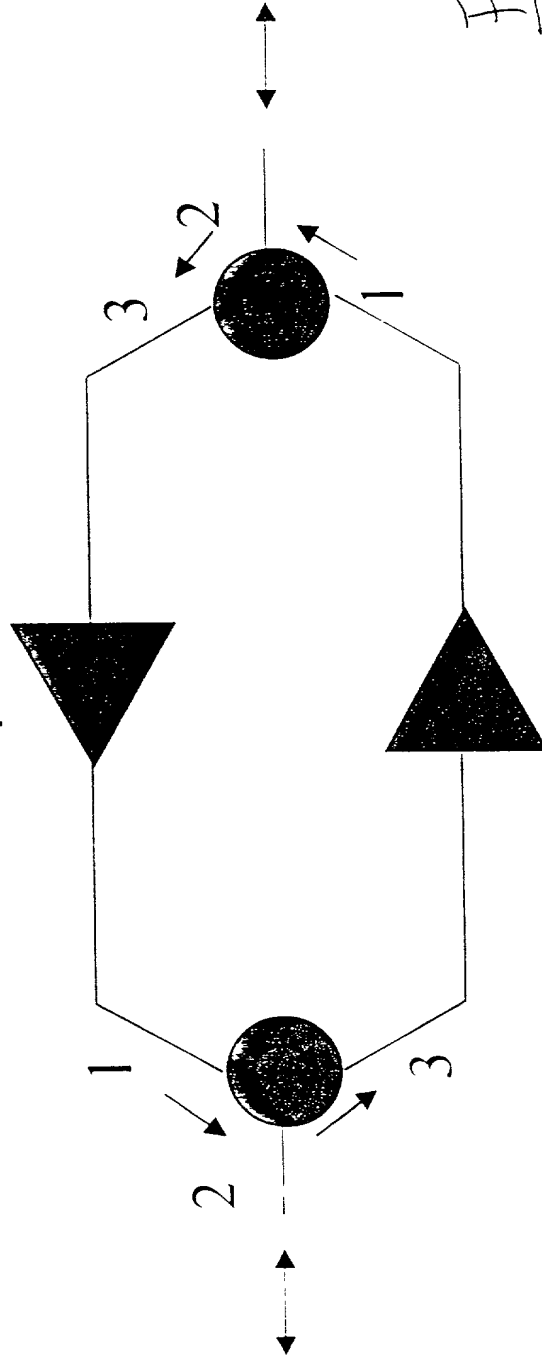


Fig. 15

b

1600

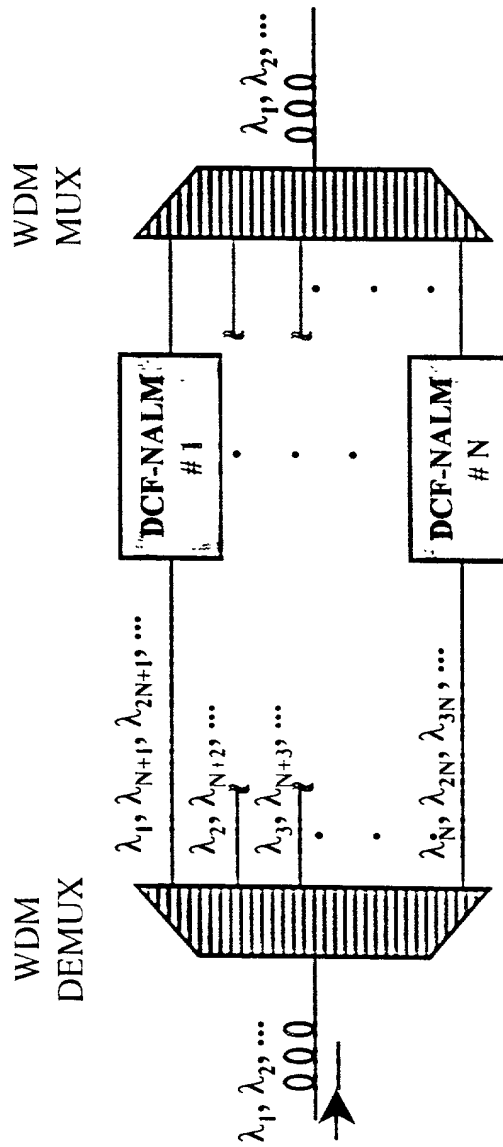


Fig. 16

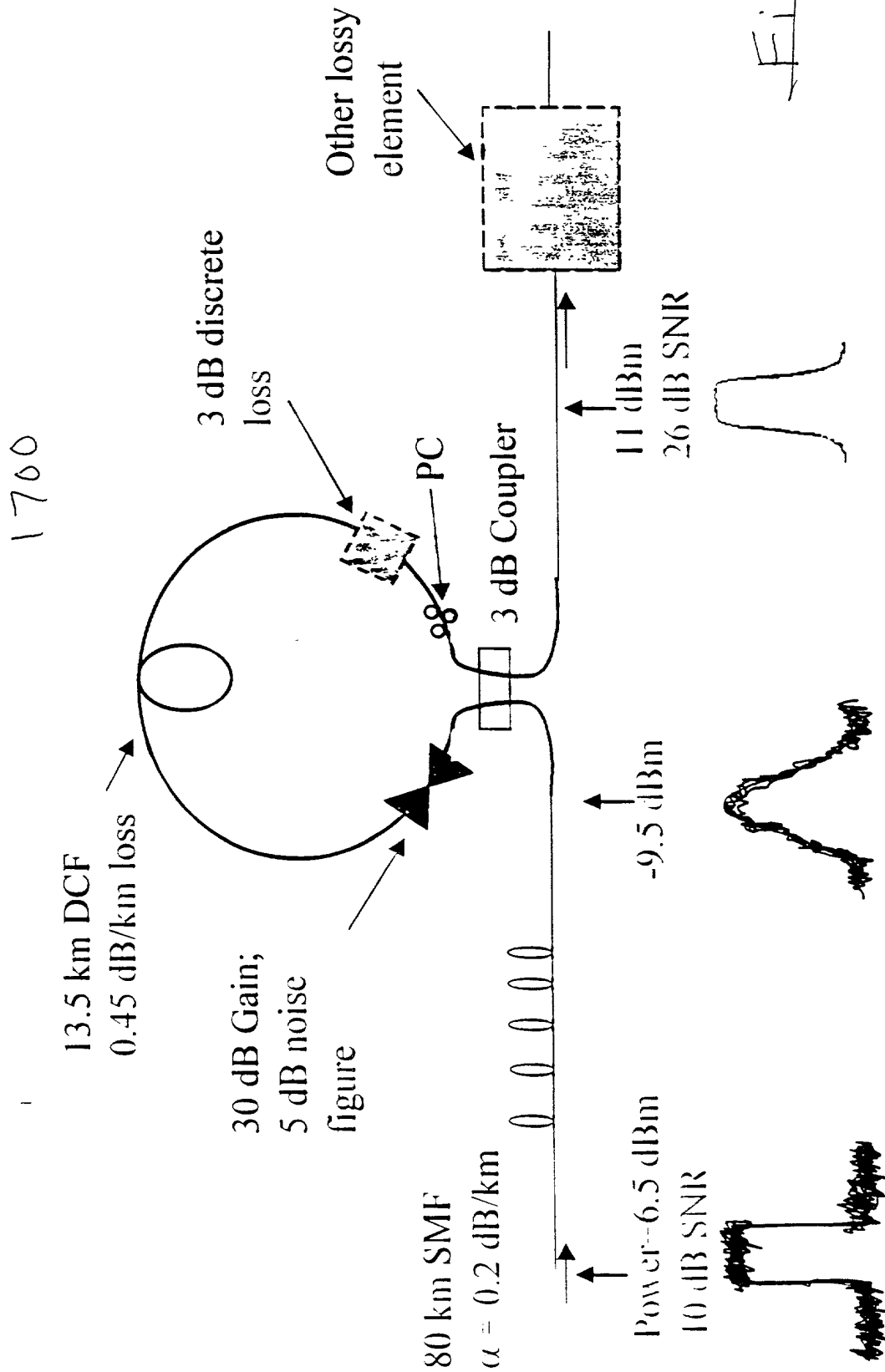
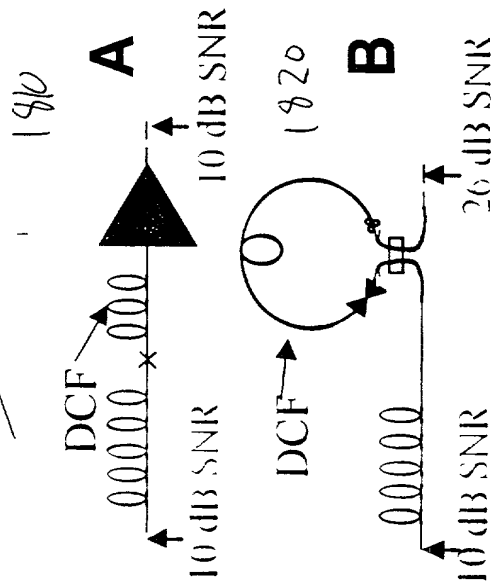


Fig. 18 (a)



Assumptions:

- 10 dB input SNR (5 GHz bandwidth)
- 5 dB amplifier NF

Results:

- 16 dB improvement in SNR

Fig 18 (b)

1800

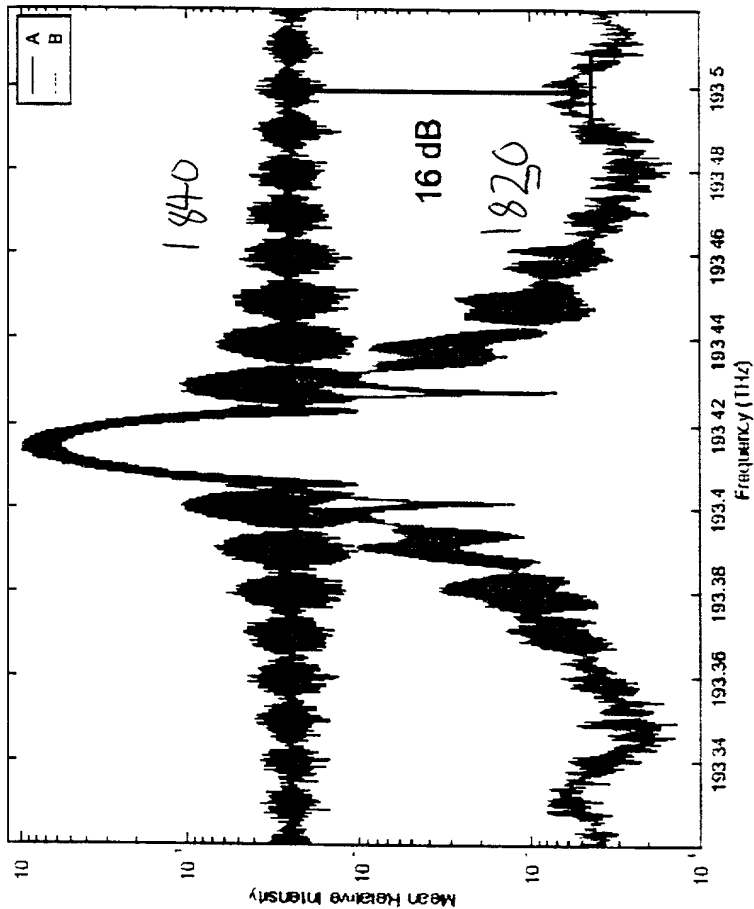


Fig. 18 (c)

1900

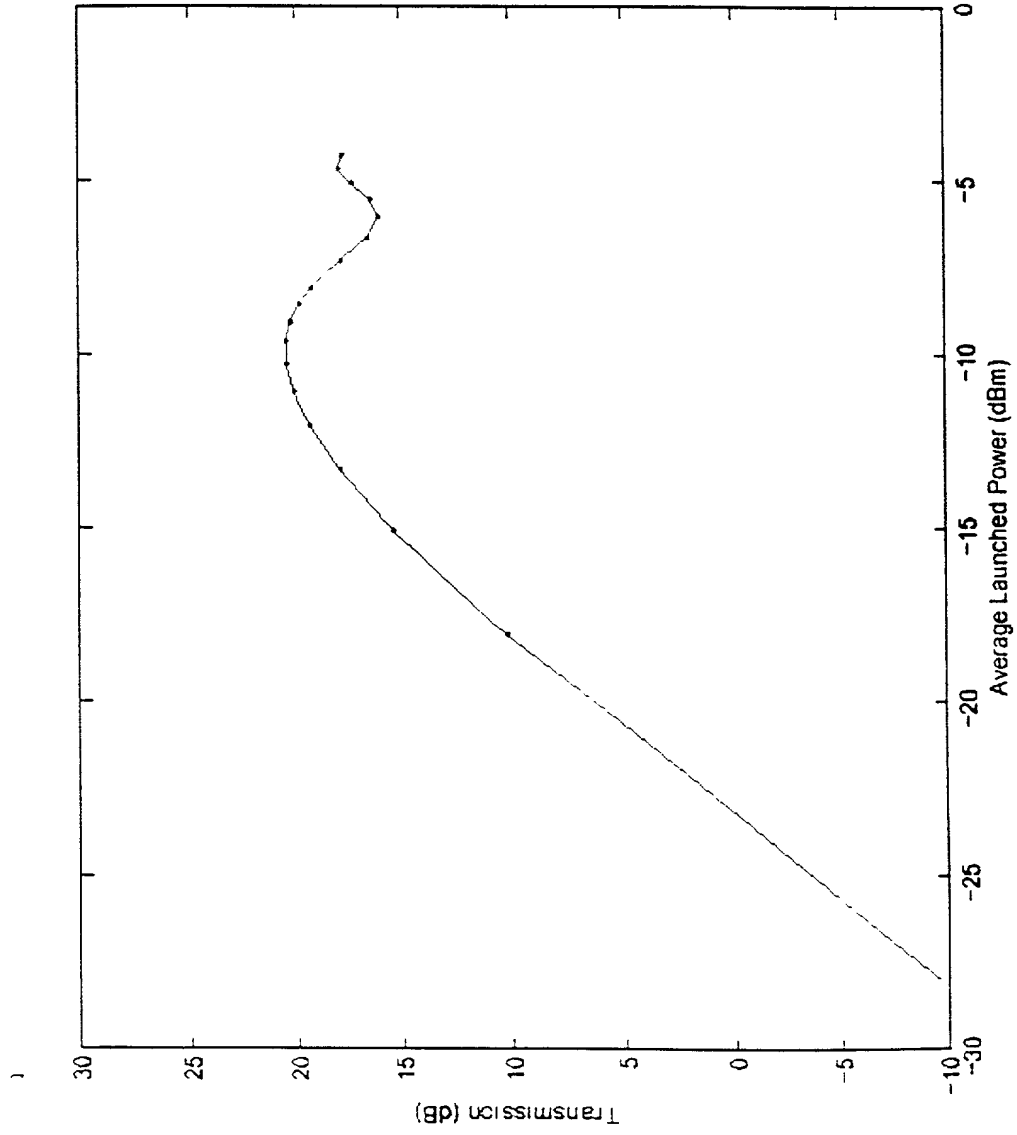


Fig. 19

2000

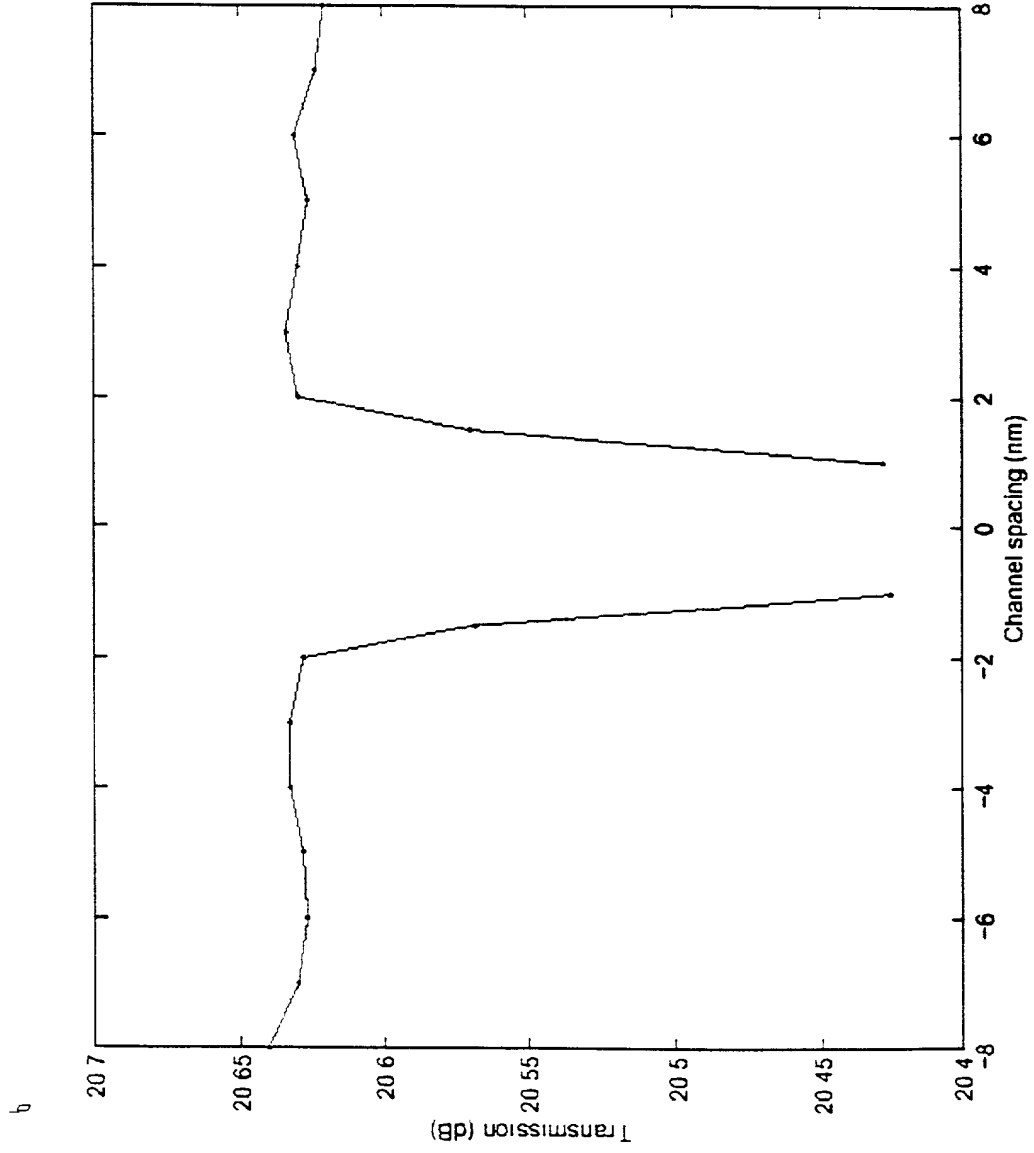


Fig. 20

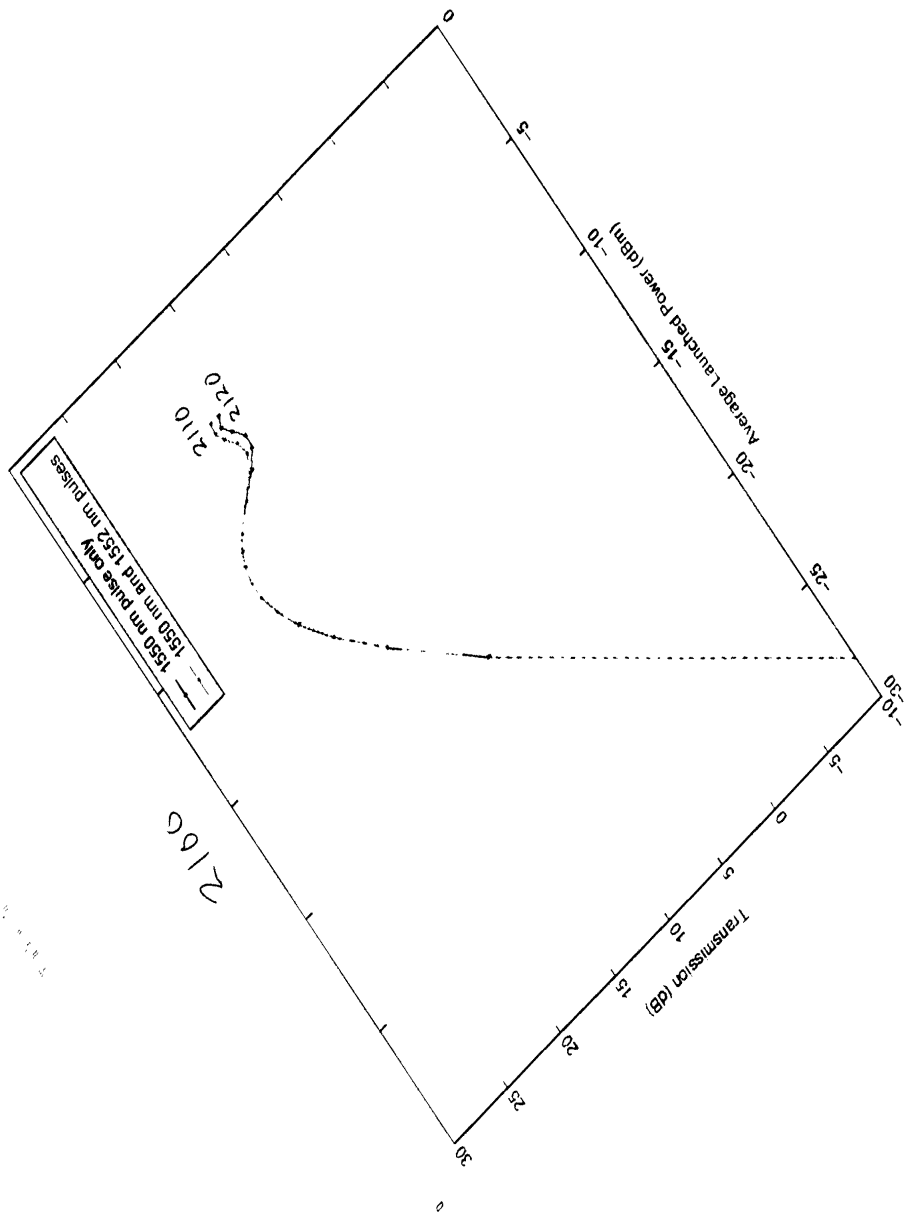


Fig. 21